

(FILE 'HOME' ENTERED AT 12:56:15 ON 08 DEC 2004)

FILE 'INSPEC, CAPLUS' ENTERED AT 12:56:38 ON 08 DEC 2004

| | | |
|----|---------|-------------------|
| L1 | 35667 S | PHOTODIODE |
| L2 | 1913 S | CMOS IMAGE SENSOR |
| L3 | 37201 S | L1 OR L2 |
| L4 | 10295 S | COLOR FILTER |
| L5 | 26628 S | TRENCH |
| L6 | 56591 S | PHOTORESIST |
| L7 | 144 S | L3 AND L6 |
| L8 | 4 S | L7 AND L5 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|------------------------------------|--------------------------------|------------------|---------|------------------|
| L1 | 0 | ("2004043530").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 12:58 |
| L2 | 1 | ("20040043530").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:03 |
| L3 | 1 | ("6661046").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:04 |
| L4 | 1 | ("6459131").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:04 |
| L5 | 1 | ("6362498").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:04 |
| L6 | 1 | ("6274917").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:06 |
| L7 | 5 | 2 3 4 5 6 | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:06 |
| L11 | 28905 | color adj filter | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 13:09 |
| L12 | 1445 | dye with photoresist | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 13:09 |
| L13 | 268107 | lens | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 13:09 |
| L14 | 84 | 11 and 12 and 13 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 13:09 |
| L15 | 68 | 14 and @ad<"20020627" | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:13 |
| L16 | 18 | 15 and ("257"/\$3 "438"/\$3).ccls. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:23 |

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|-----|--------|---|--------------------------------|----|-----|------------------|
| L17 | 54 | ((("4694185") or ("5118924") or ("5172206") or ("4935794") or ("5479049") or ("5614741") or ("5691548") or ("5585951") or ("5600344") or ("5798805") or ("5818550") or ("5838411") or ("5877832") or ("5754280") or ("5920092") or ("5593913") or ("5614950") or ("5654565") or ("5693967") or ("5711890") or ("5734190") or ("5824236") or ("5841158") or ("5841176") or ("5844289") or ("5844290") or ("5877040") or ("5900655") or ("5970316") or ("6013925") or ("6030852") or ("6104021") or ("6157017") or ("6163407") or ("6188094") or ("6211916") or ("6218667") or ("6232590") or ("6252219") or ("6255640") or ("6259083") or ("6291811") or ("6482669") or ("6605850") or ("6618087") or ("6661046") or ("6665014") or ("6753557") or ("6803250") or ("6235549") or ("6563149") or ("6784457") or ("6312969") or ("6344666")).PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:13 |
| L18 | 52 | 17 and @ad<"20020627" | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:23 |
| L20 | 249461 | lens microlens | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:17 |
| L21 | 255 | 20 and 12 | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:17 |
| L22 | 90 | 21 and 11 | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:17 |
| L23 | 74 | 22 and @ad<"20020627" | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:22 |
| L24 | 15733 | (lens microlens) with (shell empty void air gap) | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:22 |
| L25 | 255 | 24 and ("257"/\$3 "438"/\$3).ccls. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:23 |
| L26 | 194 | 25 and @ad<"20020627" | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:39 |

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|-----|----|--|--------------------------------|----|-----|------------------|
| L27 | 28 | ((("3476942") or ("3501676") or ("3512027") or ("3537028") or ("3593055") or ("3636358") or ("3668404") or ("3696263") or ("3699407") or ("3703670") or ("3739217") or ("3911430") or ("3919585") or ("4013915") or ("4038580") or ("4058750") or ("4114177") or ("4126812") or ("4152624") or ("4168102") or ("4241277") or ("4267486") or ("4675575") or ("4780752") or ("4926348") or ("5001609") or ("5404277") or ("5895228"))).PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:38 |
| L28 | 23 | 27 and @ad<"20020627" | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:40 |
| L29 | 5 | 27 not 28 | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 14:40 |
| L30 | 58 | ((("1722368") or ("4460919") or ("4694185") or ("5118924") or ("5172206") or ("4125510") or ("5063102") or ("4916528") or ("4966831") or ("5005085") or ("5132251") or ("5230972") or ("5238856") or ("5422285") or ("5528292") or ("5583354") or ("5592223") or ("5665963") or ("5667920") or ("5773814") or ("5593913") or ("5614950") or ("5654565") or ("5691548") or ("5693967") or ("5711890") or ("5734190") or ("5824236") or ("5841158") or ("5841176") or ("5844289") or ("5844290") or ("5877040") or ("5900655") or ("5970316") or ("6529239") or ("6013925") or ("6030852") or ("6104021") or ("6157017") or ("6163407") or ("6188094") or ("6211916") or ("6218667") or ("6232590") or ("6252219") or ("6255640") or ("6259083") or ("6291811") or ("6482669") or ("6605850") or ("6618087") or ("6661046") or ("6665014") or ("6753557") or ("6803250") or ("6670772") or ("6787976"))).PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 15:12 |
| S1 | 1 | ("6661046").PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 12:58 |

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|-----|---------|--|--------------------------------|-----|-----|------------------|
| S2 | 4 | ((("5371397") or ("6002145") or ("6031512") or ("6194244"))).PN. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:13 |
| S3 | 6 | kim-chaе-sung.in. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 10:12 |
| S4 | 1262 | ((257/292,294,233) or (438/69, 70)).CCLS. | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 10:12 |
| S5 | 1071 | S4 and @ad<"20020627" | US-PGPUB; USPAT; IBM_TDB | OR | OFF | 2004/12/08 13:09 |
| S6 | 1903 | CMOS image sensor | US-PGPUB; USPAT; IBM_TDB | ADJ | ON | 2004/12/08 10:13 |
| S7 | 28905 | color filter | US-PGPUB; USPAT; IBM_TDB | ADJ | ON | 2004/12/08 10:13 |
| S8 | 5226 | microlens | US-PGPUB; USPAT; IBM_TDB | ADJ | ON | 2004/12/08 10:13 |
| S9 | 52758 | trench | US-PGPUB; USPAT; IBM_TDB | ADJ | ON | 2004/12/08 10:13 |
| S10 | 50255 | photodiode | US-PGPUB; USPAT; IBM_TDB | ADJ | ON | 2004/12/08 10:13 |
| S11 | 209 | photoresist with dyed | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:17 |
| S12 | 1196856 | air | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:17 |
| S13 | 97 | S5 and S12 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:17 |
| S14 | 4 | S13 and S9 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:25 |
| S15 | 336 | S6 and S7 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:25 |
| S16 | 29 | S15 and S9 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:28 |
| S17 | 1094 | S7 and S8 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:29 |

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| S18 | 52 | S17 and S9 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:30 |
| S19 | 16651 | lens with (void air gap empty) | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:31 |
| S20 | 1154 | S19 and S10 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:31 |
| S21 | 24 | S20 and S9 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:32 |
| S22 | 17 | S5 and S19 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 10:33 |
| S23 | 47 | S6 and S19 | US-PGPUB; USPAT; IBM_TDB | OR | ON | 2004/12/08 13:09 |